

Serial No. 09/870,009
Docket No. JP920000069US1

2

AMENDMENTS TO THE CLAIMS:

1-4. (Canceled)

5. (Currently Amended) DNA having embedded ~~to which~~ information is ~~added~~, comprising:
a gene portion including genetic information;
a portion, other than said gene portion, including no genetic information; and
a nucleotide sequence which is embedded in ~~added to~~ said portion including no genetic information, and comprises source identification information for identifying a source of said genetic information in said gene portion, said nucleotide sequence being embedded ~~added~~ so as not to affect transmission of said genetic information.

6-7. (Canceled)

8. (Currently Amended) DNA comprising:
at least one special sequence that is intentionally designed and is included as a part of a nucleotide sequence,

wherein said at least one special sequence comprises source identification information for identifying the source of genetic information included in said DNA, and

wherein said at least one special sequence is ~~added to and~~ embedded in said DNA so as not to affect the transmission of said genetic information included in said DNA.

9. (Previously presented) The DNA according to claim 8, wherein said at least one special sequence comprises a plurality of sequences embedded at predetermined locations of said DNA.

10. (Previously presented) The DNA according to claim 8, wherein said at least one special sequence comprises a plurality of sequences having a plurality of types of patterns embedded at predetermined locations of said DNA.

Serial No. 09/870,009
Docket No. JP920000069US1

3

11. (Currently Amended) A nucleotide sequence in DNA, comprising:
source identification information for identifying a source of genetic information in said DNA,
wherein said information is ~~added to and~~ embedded in said DNA so as not to affect transmission of said genetic information in said DNA.
12. (Currently Amended) A cell in an organism, said cell having DNA comprising:
a gene portion including genetic information;
a portion, other than said gene portion, including no genetic information; and
a nucleotide sequence which is embedded in ~~added to~~ said portion including no genetic information, and comprises source identification information for identifying a source of said genetic information in said gene portion, said nucleotide sequence being embedded ~~added~~ so as not to affect transmission of said genetic information.
- 13-14. (Canceled)
15. (Currently Amended) DNA comprising:
a first portion comprising genetic information;
a second portion which is devoid of genetic information; and
at least one nucleotide sequence embedded in ~~added to~~ said second portion, for identifying a source of said genetic information in said first portion, said nucleotide sequence being embedded ~~added~~ so as not to affect transmission of said genetic information.
16. (Previously presented) The DNA according to claim 15, wherein said at least one nucleotide sequence is not naturally-occurring in said DNA.
17. (Previously presented) The DNA according to claim 15, wherein said genetic information comprises a value-added gene that is provided by one of selective breeding, cultivation, and gene

Serial No. 09/870,009

4

Docket No. JP920000069US1

manipulation.

18. (Previously presented) The DNA according to claim 15, wherein said at least one nucleotide sequence comprises a plurality of sequences having a plurality of types of patterns embedded at predetermined locations in said second portion.
19. (Previously presented) The DNA according to claim 15, wherein said at least one nucleotide sequence comprises a plurality of nucleotide sequences.
20. (Previously presented) The DNA according to claim 19, wherein said plurality of nucleotide sequences comprises different nucleotide sequences.
21. (Previously presented) The DNA according to claim 15, wherein said at least one nucleotide sequence is copy tolerant.
22. (Currently Amended) The DNA according to claim 15, wherein said at least one nucleotide sequence is embedded ~~added~~ at a random location in said second portion.
23. (Previously presented) The DNA according to claim 15, wherein said at least one nucleotide sequence and is not naturally generated through gene mutation.
24. (Previously presented) The DNA according to claim 15, wherein said at least one nucleotide sequence comprises one of a restrictive enzyme identification sequence and a promoter.
25. (Previously presented) The DNA according to claim 15, wherein said at least one nucleotide sequence is detectable using a nucleotide sequence that is complementary to said at least one nucleotide sequence.

Serial No. 09/870,009

5

Docket No. JP920000069US1

26. (Currently Amended) The DNA according to claim 15, wherein said at least one nucleotide sequence is embedded ~~added~~ at a predetermined location in said second portion.
27. (Currently Amended) The DNA according to claim 15, wherein said nucleotide sequence is correlated with said source identification ~~corresponds to a source of said genetic~~ information in said first portion.
28. (New) The DNA according to claim 1, wherein said nucleotide sequence is not naturally occurring in said DNA.
29. (New) The DNA according to claim 1, wherein said nucleotide sequence is embedded so as not to affect transmission of said genetic information.
30. (New) The DNA according to claim 1, wherein said nucleotide sequence comprises a watermark sequence.